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APPLICATION NO	D.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/679,311		10/07/2003	Sheng-Tsung Wang	MR957-1404 3218 EXAMINER		
4586	7590	09/15/2005				
		LEIN & LEE	SUHOL, DMITRY			
	3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			ART UNIT	PAPER NUMBER	
				3725		
				DATE MAILED: 09/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antique Co.	10/679,311	WANG, SHENG-TSUNG				
Office Action Summary	Examiner	Art Unit				
	Dmitry Suhol	3725				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from . cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133)				
Status	1	,				
1) Responsive to communication(s) filed on						
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	: 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary ((PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da	te				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 3, there is no antecedent basis for "the output shaft".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang '310 in view of Morgenthaler et al (EP 0446819 A2). Wang discloses an actuating mechanism containing most of the claimed elements including with reference to claims 1 and 3, a power source (col. 2, lines 63-65), a transmission for passing movement (figure 2) including a planetary gear set (242) having a sun gear (3) fixedly disposed in the front portion of the pipe bender (col. 3, line 1), a central shaft for connection to the power source (2 and col. 2, lines 40-42), an actuating shaft being in the planetary gear

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set (shaft 4 including portion 41), planetary pinions (242) rotatable on respective shafts (232) figures 2-3, the planet pinions engaged with both the central shaft and the inner toothed portion of the sun gear (figures 2-3).

Although Wang discloses most of the claimed elements, the reference fails to teach a crown gear connected with the lower end of the central shaft and an actuating pinion securely connected with an output shaft of the power source and engaged with the crown gear as required by claims 1 and 3. However, Morgenthaler discloses a pipe bending machine which teaches that it is known to manufacture such a machine with a connection between a motor (40) and a transmission for a pipe bender through the use of a crown gear (44) and associated pinion (45) (see figure 2). Therefore it would have been obvious to one having ordinary skill in the art, at the time of the claimed invention, to manufacture the device of Wang with such a connection means between the motor and transmission for the purpose of providing a durable and reliable power transfer linkage, especially since Wang clearly states in col. 2, lines 63+ that his central shaft portion 42 may be provided with a gear which engages other gears of the power source.

Regarding claim 2, the use a particular type of motor (e.g. a gear reduction motor) would have been obvious since it would only depend on the desired RPMs, torque of the motor and the desired power drawn of the motor.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang '310 and Morgenthaler et al (EP 0446819 A2), as stated above, and further in view of applicants own admission. Wand, as modified by Morgenthaler, discloses most of the

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claimed elements as stated above but for the specifics of the power source as claimed, however applicants clearly show in figure 6 that a power source with all of the claimed elements is known to be used with a pipe bending machine in the prior art (see figure 6). Therefore it would have been obvious to utilize the power source with all of the claimed features in the device of Wang, as modified by Morgenthaler, for the purpose of supplying an appropriate amount of power/torque to the device at the desired power draw.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Suhol whose telephone number is 571-272-4430. The examiner can normally be reached on Mon - Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Dmitry Suhol Examiner

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